this Webinar is Nextracker

24 July 2024

1:00 pm – 2:00 pm | Dubai 2:30 pm – 3:30 pm | IST, Delhi 11:00 am – 12:00 pm | CEST, Berlin



Bella Peacock Editor pv magazine



Uma Gupta Editor pv magazine



Unlocking Solar Project Success: Best Practices for Selecting the Right Tracker System



Abhilash Pamulaparthy Senior Product Manager Nextracker

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Unlocking Solar Project Success: Best Practices for Selecting the Right Tracker System



Prasanta Patra Assistant Vice President Ayana Renewables India Samul Verma Head Engineering (Civil) Sterling and Wilson Renewable Energy



Siddharth Singh AVP - design & Engineering Serentica Renewables

Welcome!



Do you have any questions? ?
Send them in via the Q&A tab.
We aim to answer as many as we can today!
You can also let us know of any tech problems there.

We are recording this webinar today. We'll let you know by email where to find it and the slide deck, so you can re-watch it at your convenience.

nextracker

PV Magazine Webinar

Abhilash Pamulaparthy

Nextracker

July 24, 2024

2024



\$2.5 Billion

REVENUE FY '24 ENDING MARCH 2024



500 +

PATENTS MECHANICAL, ELECTRONICS, SOFTWARE



SHIPPED (CUMULATIVE)

Feb 2023 IPO \$ 8 Billion

MARKET CAP AS OF JUN 2024



WORLDWIDE PARTNER MFG. FACILITIES



COUNTRIES WITH ACTIVE CUSTOMERS

Why Solar Trackers for India?

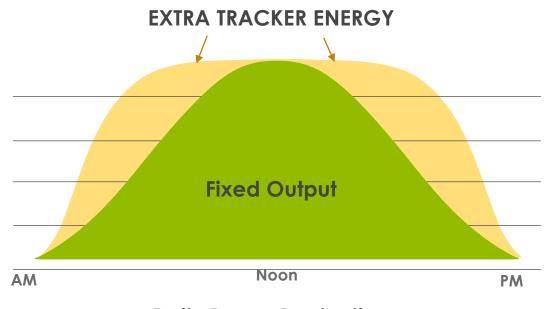
Lower Levelized Cost of Energy (LCOE) and Higher IRR

- **20–30%** more energy yield than fixed tilt
- Better match to utility load and generate more energy during higheruse times
- Higher performance from bifacial panels

NX-Specific Software Benefits vs. Fixed

- Enables software-driven performance
 optimization
- Helps mitigate risk from weather: snow, flooding, hail

Tracker Compared to Fixed Mount

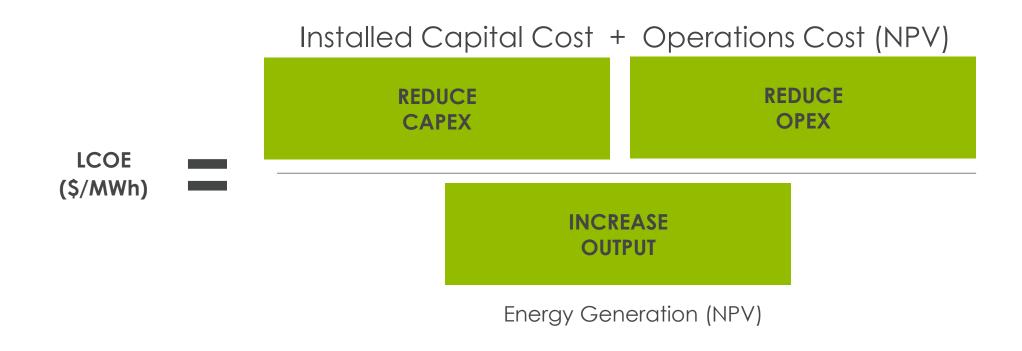


Daily Power Production



LCOE advantage

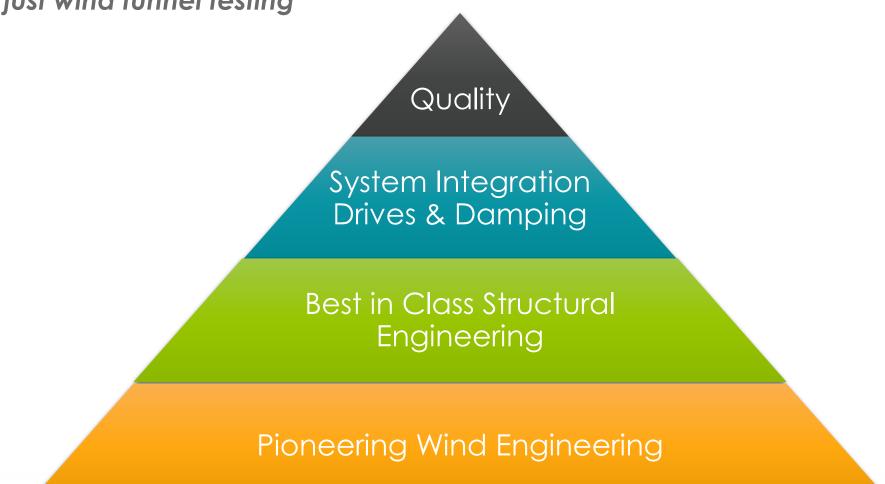
Nextracker provides advantages in all 3 Levelized Cost of Energy (LCOE) levers





Nextracker Designing Excellence for Indian projects

It's not just wind tunnel testing





NX Horizon Self-Powered Tracker

Superior mechanical design with smart control features



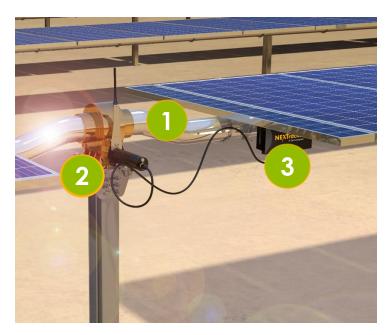
Balanced Drive System- Self-powered, independent tracker rows move quickly with high precision and energy efficiency



Tracker-level Comms- Trackers are wirelessly connected to provide individual row control and visibility of real-time activity



Self-Powered Controller- Powers tracker movement, enables data collection via smart sensors and TrueCapture yield enhancement

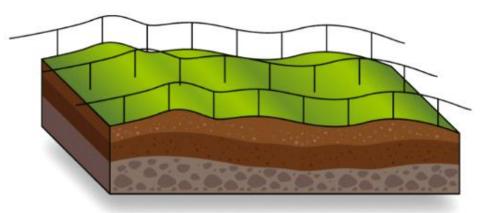




NX Horizon-XTR[™] Terrain-Following Capability



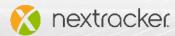
Tracker follows native contours



Standard Tracker

Perform earthwork \rightarrow Build "straight line" trackers





Nextracker Tech Suite Increases Addressable Market

THE NEXT FRONTIER FOR SOLAR & AGRICULTURE



AgriPV Solution

Solar solutions that benefit farming communities and biodiversity

- Independent-row architecture simplifies harvesting and O&M
- NX Horizon-XTR protects topsoil and local habitat
- Integrated software enables operational control for harvesting, cattle grazing & other needs in the field

UP TO 35% LESS EMBODIED CO₂E*

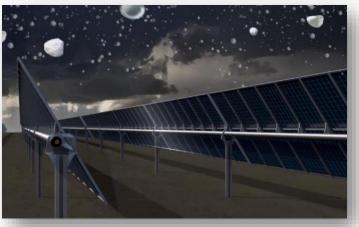


NX Horizon Low Carbon

Low Greenhouse Gas Manufacturing Option, with Emissions Verification

- Up to 35% less embodied CO₂e* vs. traditional, imported tracker products
- Reduced Resources: less water, minerals, land
 required for production & fulfillment
- Includes 3rd party validated Life Cycle Assessment (LCA) report

FIRST GENERATION HAIL STOW DELIVERED IN 2020



NX Horizon Hail Pro

Comprehensive Hail-Stowing Solution Hardware, Software, Service

- Leverages NX Horizon with Integrated UPS
- Automatic stowing using weather service information, hail readiness services, and where desired, Hail Pro-75[™] for stowing at up to 75 degrees for extreme hail locations

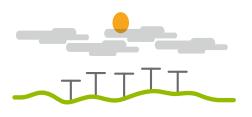


*CO2e indicates CO2 equivalent greenhouse gas emissions as reported by third party LCAs

TrueCapture Smart Control Modes

Up to 4% total annual energy gain

Diffuse Mode



When: During diffuse light conditions

What: Boosts energy compared to standard sun-facing angles

How: Re-positions trackers to more skyward-facing positions

Modules: Full-cell, Split-cell, Thin-film

Row-to-row backtracking (R2R) Modes



Shade Avoid

When: Early AM and late

to standard backtracking

How: Avoids module shade.

using terrain-adaptive, row-

Modules: Full-cell, Split-cell

What: Boosts energy

by-row backtracking

compared

algorithms

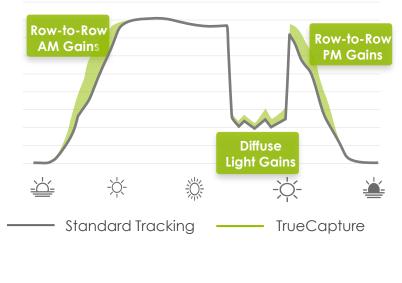
PM

Split Boost

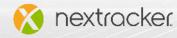
When: Early AM and late PM

> What: Boosts energy compared to standard backtracking

How: Maximizes light on module top-half, using terrainadaptive, row-by-row backtracking algorithms







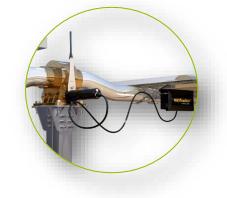
Modules: Split-cell

No Compromise on Product Quality & Reliability

High-Quality & Durability

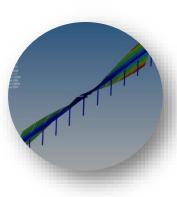


Brushless DC motors for long-term durability and lower O&M costs



s for Lithium-io and provide ts lifespans and

Lithium-ion batteries provide superior lifespans and lower O&M costs



Wind tunnel-tested design and engineering with no substantial wind failures over the last seven years

World-Class Wind Engineering & Performance



Dampers reduce oscillations of a tracker when the tracker sustains dynamic effects under wind loads



Extreme weather stow functionality increases survivability of solar panels.

¹ Based on aggregate Nextracker Asset Management customer satisfaction survey data for responding to service requests (avg. of Q1 and Q2 FY24 through 9/29/2023).

² Based on company data, applicable to NX Horizon 2 systems properly designed and installed and operating at or below code wind speed.

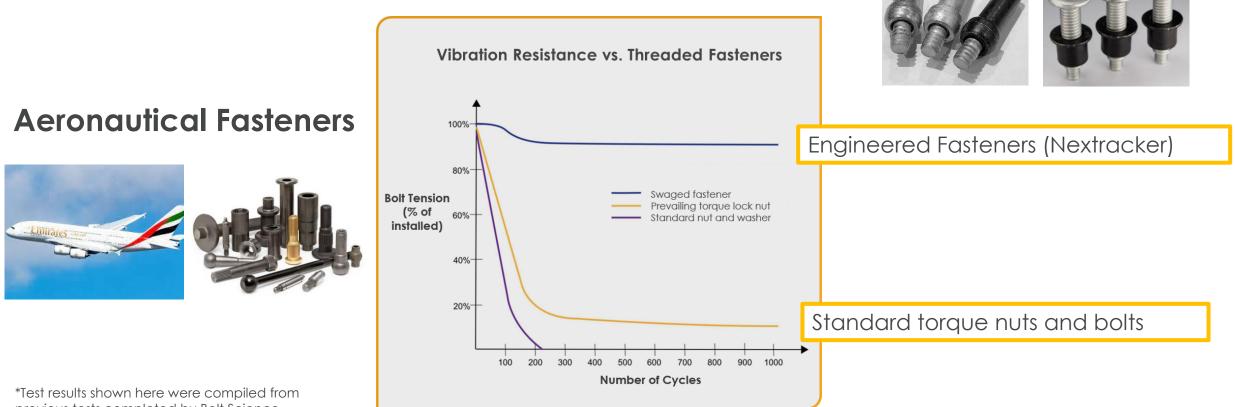
³ Based on Wood Mackenzie Ltd., Global Solar PV Tracker Market Share 2023 Report for CY22 (July 2023 report).

⁴ Based on RETC Hail Test Report report: Allen, J. T., and M. K. Tippett, "The characteristics of United States hail reports: 1955–2014", Electronic J. Severe Storms Meteor., 10 (3), 1–31.



Superior Components: A Lifetime Connection

Structural integrity, reliability and safety



previous tests completed by Bolt Science, LTD, Huck International, Inc and Henkel Corp.



Intensive Full Scale Wind Engineering & Design

Collecting 600+ channels of data daily

Data being collected:

- Wind
- Air Pressure
- Force
- Strain
- Torque
- Acceleration
- Displacement
- Motor Current
- Control Status
- Video



NREL Flat Irons Campus Installation



NXT Differentiated Reliability In the Real World

Engineering & Technology Matter Especially with More Extreme Weather

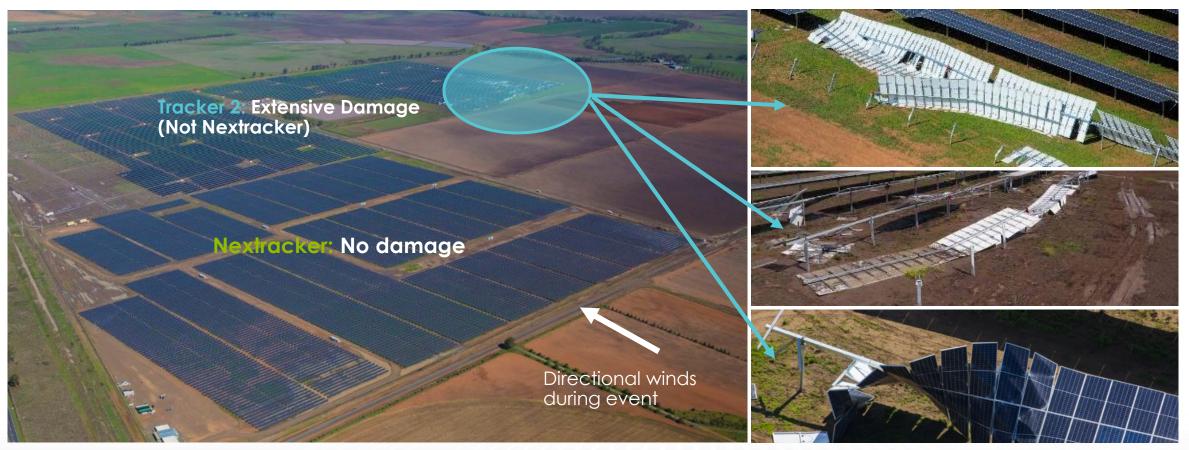


Two Different Tracker Architectures, Side-by-Side

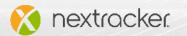


NXT Differentiated Reliability In the Real World

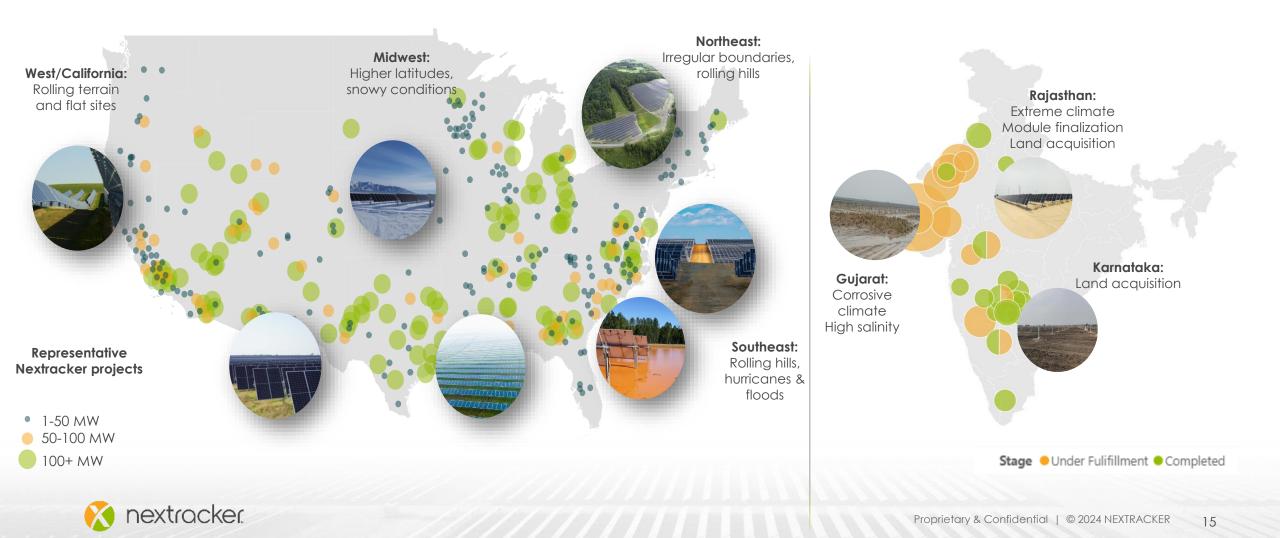
Engineering & Technology Matter Especially with More Extreme Weather



Oakey, Queensland, Australia (2019)



Nextracker Projects Deployed: Wide Range of Conditions



Quality & Reliability Matters

When a fast-moving storm hits your site quality and reliability matter:

- Will the controllers have enough energy?
- Will the dampers have sufficient reliability to provide stability?
- Will the motor be worn out and non-functioning?
- Will the firmware for the weather sensing system and control system be bug-free?

Working with the right partner and selecting the tracker system is the key to ensuring you are maximizing your investment



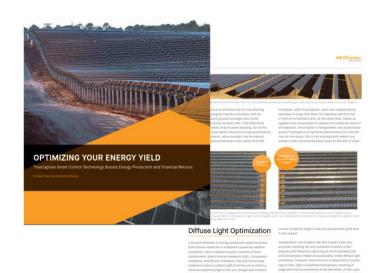
Additional Resources

Click on the titles to read more on these topics



Mitigating Extreme Weather Risk





A Tale of Two Solar Racking System Fasteners: Threaded vs. Lockbolt

Optimizing your Energy Yield





Thank You

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Samul Verma Head Engineering (Civil) **Sterling and Wilson Renewable Energy**



Siddharth Singh

AVP - design & Engineering

Serentica Renewables



Unlocking Solar Project Success: Best Practices for Selecting the Right Tracker System **Panel discussion**

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Unlocking Solar Project Success: Best Practices for Selecting the Right Tracker System Q&A



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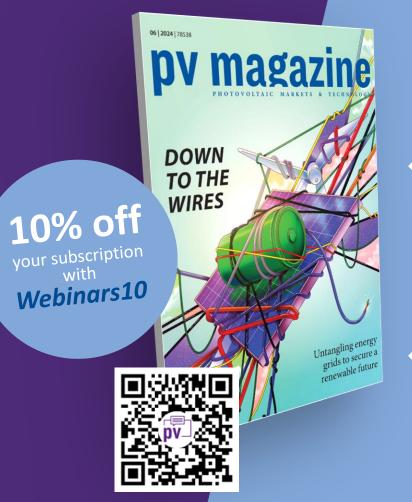
Siddharth Singh ivil) AVP - design & Engineering n Serentica Renewables



Abhilash Pamulaparthy Senior Product Manager Nextracker



The latest news | print & online



SunPower stock crashes 70%

by Ryan Kennedy



Most-

read

online!

Water-source heat pump integrating cooled photovoltaic panels, thermal storage

by Emiliano Bellini





Coming up next...

Monday, 29 July 2024 10:00 am – 11:00 am CEST, Berlin **Friday, 23 August 2024** 3:00 pm – 4:00 pm CEST, Berlin

Many more to come!

Einstieg mit höchsten Ansprüchen: das erste Heimspeichersystem von Anker Solix

(Webinar is in German)

Großer Containerspeicher mit Brandschutzlösung DCund AC-Kopplung

(Webinar is in German)

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Thank you for joining today!